OVERVIEW OF ECUADOR BUILDING CODE REGULATION PROCESS

NIST Standards in Trade Workshop on Concrete and Cement

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- Administration,
- Development,

- ⇒Implementation,
- Support Services, and
 - **⊃**Conclusions.

...related with the Regulation process for Building Codes and Standards in

ECUADOR

Name of Organization

- The Building Code of Ecuador was developed by a group of researchers from many universities in ECUADOR: Escuela Politécnica Nacional, Universidad Católica de Quito, Universidad Católica de Guayaquil, Universidad de Cuenca, Escuela Politécnica del Ejército, etc.
- The present Code was developed in the year 2000
- 25 people participated in the discussions
- There is no annual budget for the development of Codes in Ecuador
- This was accomplished with a donation from the Ecuadorian Foundation for Science and Technology (FUNDACYT)

Membership Composition

- Researchers from Universities, members of Chambers of Construction, Ecuadorian
 Society of Civil Engineers
- Do not apply
- About 25 people

Codes and Standards

 In Ecuador Codes are usually regarded as LAW, but Standards are just considered common practice

Contents of the Building Code

- The Ecuadorian Code of Construction is basically the translation of the UBC-77 Code except for the first chapter: Seismic Hazard and Seismic Zonation
 - We also acknowledge the ACI Code for concrete,
 the AISC Code for steel, there is no Code for wood
 - There is a first draft for a new Fire Code
 - There is not a specific Code for Mechanical, sanitation, fuel gas and plumbing, energy conservation

DEVELOPMENTof Building Codes and Standards

- Describe the process for the development of Building Codes and Standards in ECUADOR
 - Usually researchers from Universities
 - A committee is formed with member from universities
 - There is no vote, everything is approved by consensus
 - It took 20 years for the first updating of the Construction
 Code
 - We hope it would be a continuous process

Who participates in the development of building codes and standards

	YES	NO
Building Departments	X	
Public works/Ministries	X	
Fire Departments		X
Standard Developing Organizations		X
Professional Association	X	
Professors/Universities	X	现金并是
Manufacturers		X
Testing Labs	X	
Independent Engineers/architects/technicians	X	
Insurance Companies		X
Builders and Users	X	

MODIFICATION AND ADAPTATION of Building Codes and Standards

- Are the codes and standards modified and adapted to meet local conditions?
 - NO, but it should be taken into consideration local soil conditions for example for seismic regulations
 - The National Institute of Normalization (INEN) is in charge of enforcing the Code, but they do not do it.

ADOPTION of Building Codes and Standards

 Describe how the building codes and standards are adopted in ECUADOR

It was adopted by a national agency in charge of Standards (INEN)

ENFORCEMENTof Building Codes and Standards

- Describe the building construction enforcement process:
 - INEN has the authority but it does not use it.
 - There are no plan-checks performed
 - There are no inspections performed.

Codes from other Countries

- INEN allows the use of building codes and standards from other countries
- If multi-national companies submit structural and/or non-structural building designs based on the U.S. codes and standards, they are permitted to be used

Support Services

 Describe the support services offered to the public by the organization developing the building codes and standards:

There is only a publication of the Code in the form of a book

Support Services (Continues)

 Describe the procedure for accepting and/or approving building materials from other countries for use in ECUADOR:

We have to ask for a permit from INEN

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